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MFN-006

**MASTER OF SCIENCE (DIETETICS
AND FOOD SERVICE MANAGEMENT)**

M. Sc. (DFSM)

Term-End Examination

December, 2021

MFN-006 : PUBLIC NUTRITION

Time : 3 Hours

Maximum Marks : 100

Note : Answer **five** questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) List any *three* roles of a public nutritionist in health care delivery. 3

- (b) Name the levels of health care in our country, giving examples. 3
- (c) What is pellagra ? Give its clinical manifestations. 3
- (d) Give the WHO criteria for classification of goitre. 3
- (e) Define demographic transition. 1
- (f) List any *three* indicators which can be used for indirect assessment of nutritional status. 3
- (g) List any *two* agencies which are involved with collecting and compilation of nutrition, health data in our country. 2
- (h) What is the dosage recommended for pregnant and preschool children for iron deficiency prevention in our country ? 2

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2. (a) Briefly discuss the factors and the determinants of food and nutrition security in our country. 10
- (b) Highlight the different clinical forms of PEM. Present the IAP classification for identifying the grade of PEM in our country. 10
3. (a) Discuss the various strategies you would adopt to prevent Vitamin A deficiency. 10
- (b) Explain the clinical manifestations of the deficiency of the following nutrients : 5+5
- (i) Riboflavin
- (ii) Scurvy
4. (a) Briefly describe how fertility behaviour impacts on nutrition and health status of women in our country. 10

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- (b) Give the guideline you will use to assess the nutritional status of population groups using biochemical parameters for the following : 2+2+2+2+2
- (i) Vitamin A deficiency
- (ii) PEM
- (iii) Iodine deficiency
- (iv) Anaemia
- (v) Vitamin D deficiency
5. (a) List the aims of National Nutrition Policy. Explain the short-term interventions proposed in the nutrition policy. 4+6
- (b) Briefly explain the programme component of the following programmes : 5+5
- (i) MDM
- (ii) TPDS

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6. (a) "Fortification is a major approach to prevent micronutrient deficiency." Justify the statement giving the approach adopted in our country regarding fortification to overcome malnutrition. 6
- (b) Comment on the importance of clean water and urban and rural sanitation as a strategy to improve nutrition health status of individuals. 10
- (c) What do you understand by programme management ? As a public nutritionist, what functions of management would you adopt in context of nutrition programme ? 2+2
7. (a) What is nutrition education ? Briefly discuss its scope and importance for improving nutrition of population groups. 2+6
- (b) Define community participation. Give the benefits of community participation. 2+6
- (c) List the four Ps of social marketing process. 4

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8. Write short notes on any *four* of the following : 5 each
- (a) Setting objectives of nutrition education communication programme
- (b) National Iodine Deficiency Disorder Control Programme
- (c) Components of ICDS
- (d) Dietary assessment as a means to assess nutritional status
- (e) Manifestation and prevention of fluorosis.

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